

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	398	T ADJ "1249"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L5	3	(T ADJ "1249") same Peg\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L6	7	(T ADJ "1249") same Glycol\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L7	0	(gp41 same HIV same Glycol\$) same pegyl\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L8	17	gp41 same HIV same Glycol\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L9	5791	Pegyl\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L10	702	Pegyl\$ SAME linker	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L11	990	Pegyl\$ SAME Length	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L12	63	(Pegyl\$ SAME linker) and (Pegyl\$ SAME Length)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L13	2	((("5464933") or ("5656480")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/02 15:35
L14	8940	Glycol same peptide	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L15	1500	(Glycol same peptide) same conjugat\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L16	1500	(Glycol same peptide) and ((Glycol same peptide) same conjugat\$)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L17	29	glycol ADJ length	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L18	1354	PEG same Spacer	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35

L19	183	(PEG same Spacer) same length	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L20	23	Polyethylene same glycol same protein same spacer same length	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L21	4	(Polyethylene same glycol same protein same spacer same length) same peptide	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L22	73	Glycol same length same increase same half adj life	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:35
L23	1	("4,261,973").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/02 15:35
L24	1	("6348568").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/02 15:36
L25	134460	Insulin SMAE PEG	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L26	555	Insulin SAME PEG	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L27	0	Insulin SAME PEG SAME conmjugated	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L28	102	Insulin SAME PEG SAME conjugated	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L29	2	HIV SAME PEG SAME conjugated SAME Peptide	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L30	1	("6469136").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/02 15:36
L31	5769	Pegylation or Pegylated	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L32	694	(Pegylation or Pegylated) same linker	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L33	2249	(Pegylation or Pegylated) same attach\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36

L34	182	(Pegylation or Pegylated) same attach	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L35	143	(Pegylation or Pegylated) same coupl\$ same aldehyde	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L36	79	PEG-aldehyde	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L37	3	(T ADJ "1249") same Peg\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L38	398	T ADJ "1249"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L39	4045	t adj "20"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L40	991	T-20	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L41	6	T-20 same Peg	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L42	2	T-20 same peptide same Peg	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L43	1	("6469136").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/12/02 15:36
L44	2	(T adj "20") same peptide same Peg	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L45	4	gp41 same peptide same peg	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L46	75	YTSLIHSLIEESQNQQEKNEQELLEL DKWASLWNWF	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L47	400838	L46 same polyethylene glycol	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L48	13	L46 same polyethylene same glycol	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L49	1	("6348568").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/12/02 15:36

L50	1201	Peg same aldehyde	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L51	52	Polyethylene adj glycol adj aldehyde	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L52	1	("6469136").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/12/02 15:36
L53	1	("5,252,714").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/12/02 15:36
L54	75	YTSLIHS�IEESQNQQEKNEQELLE DKWASLWNWF	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L55	0	PEG adj YTSLIHS�IEESQNQQEKNEQELLE DKWASLWNWF	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L56	0	Peg-YTSLIHS�IEESQNQQEKNEQEL LELDKWASLWNWF	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L57	1	YTSLIHS�IEESQNQQEKNEQELLE DKWASLWNWF same peg	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
L58	13	YTSLIHS�IEESQNQQEKNEQELLE DKWASLWNWF same polyethylene	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/12/02 15:36
S1	279	T ADJ "1249"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/06 14:15
S2	2	(T ADJ "1249") same Peg\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/18 16:01
S3	5	(T ADJ "1249") same Glycol\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/18 16:17
S4	0	(gp41 same HIV same Glycol\$) same pegyl\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/18 16:18
S5	11	gp41 same HIV same Glycol\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/18 16:18
S6	4052	Pegyl\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 10:42
S7	483	Pegyl\$ SAME linker	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 10:43

S8	790	Pegyl\$ SAME Length	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 10:43
S9	35	(Pegyl\$ SAME linker) and (Pegyl\$ SAME Length)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 10:53
S10	2	((("5464933") or ("5656480")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/10/19 11:16
S11	6722	Glycol same peptide	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 11:17
S12	1062	(Glycol same peptide) same conjugat\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 11:17
S13	1062	(Glycol same peptide) and ((Glycol same peptide) same conjugat\$)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 11:17
S14	25	glycol ADJ length	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 11:38
S15	1101	PEG same Spacer	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 11:38
S16	147	(PEG same Spacer) same length	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 11:39
S17	17	Polyethylene same glycol same protein same spacer same length	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 11:42
S18	1	(Polyethylene same glycol same protein same spacer same length) same peptide	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 11:46
S19	42	Glycol same length same increase same half adj life	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 11:52
S20	1	("4,261,973").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/10/19 11:54
S21	1	("6348568").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/10/19 14:52
S22	112421	Insulin SMAE PEG	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 14:52

S23	408	Insulin SAME PEG	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 14:52
S24	0	Insulin SAME PEG SAME conmjugated	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 14:52
S25	83	Insulin SAME PEG SAME conjugated	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 15:07
S26	2	HIV SAME PEG SAME conjugated SAME Peptide	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/10/19 15:07
S27	1	("6469136").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/10/19 16:07
S28	4100	Pegylation or Pegylated	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/11/08 10:54
S29	483	(Pegylation or Pegylated) same linker	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/11/08 10:54
S30	1575	(Pegylation or Pegylated) same attach\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/11/08 10:55
S31	134	(Pegylation or Pegylated) same attach	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/11/08 11:29
S32	104	(Pegylation or Pegylated) same coupl\$ same aldehyde	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/11/08 12:57
S33	54	PEG-aldehyde	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/11/08 12:57
S34	2	(T ADJ "1249") same Peg\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/02 14:31
S35	293	T ADJ "1249"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/02 14:26
S36	3407	t adj "20"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/02 14:31
S37	780	T-20	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/02 14:31
S38	5	T-20 same Peg	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/02 15:07

S39	1	T-20 same peptide same Peg	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/02 15:38
S40	1	("6469136").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/02 15:34
S41	1	(T adj "20") same peptide same Peg	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/02 15:39
S42	4	gp41 same peptide same peg	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/02 15:39
S43	57	YTSLIHS�IEESQNQQEKNEQELLE DKWASLWNWF	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/02 17:29
S44	362071	S43 same polyethylene glycol	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/02 17:30
S45	13	S43 same polyethylene same glycol	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/02 17:36
S46	1	("6348568").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/02 17:36
S47	902	Peg same aldehyde	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/06 14:16
S49	45	Polyethylene adj glycol adj aldehyde	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/06 15:08
S50	1	("6469136").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/06 16:07
S51	1	("5,252,714").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/06 16:07
S52	57	YTSLIHS�IEESQNQQEKNEQELLE DKWASLWNWF	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/07 15:21
S53	0	PEG adj YTSLIHS�IEESQNQQEKNEQELLE DKWASLWNWF	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/07 15:21
S54	0	Peg-YTSLIHS�IEESQNQQEKNEQEL LELDKWASLWNWF	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/07 15:21
S55	1	YTSLIHS�IEESQNQQEKNEQELLE DKWASLWNWF same peg	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/07 15:24

S56	13	YTSLIHS�IEESQNQQEKNEQELLE DKWASLWNWF same polyethylene	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/12/07 15:24
-----	----	-----------------------------------------------------------	---------------------------------	----	----	------------------

L39 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 251562-00-2 REGISTRY
ED Entered STN: 22 Dec 1999
CN L-Phenylalaninamide, N-acetyl-L-tryptophyl-L-glutaminyl-L- α -glutamyl-L-tryptophyl-L- α -glutamyl-L-glutaminyl-L-lysyl-L-isoleucyl-L-threonyl-L-alanyl-L-leucyl-L-leucyl-L- α -glutamyl-L-glutaminyl-L-alanyl-L-glutaminyl-L-isoleucyl-L-glutaminyl-L-glutaminyl-L- α -glutamyl-L-lysyl-L-asparaginyl-L- α -glutamyl-L-tyrosyl-L- α -glutamyl-L-leucyl-L-glutaminyl-L-lysyl-L-leucyl-L- α -aspartyl-L-lysyl-L-tryptophyl-L-alanyl-L-seryl-L-leucyl-L-tryptophyl-L- α -glutamyl-L-tryptophyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1: PN: WO9959615 PAGE: 68 claimed protein

CN T 1249

CN Tifuvirtide

FS PROTEIN SEQUENCE

MF C235 H341 N57 O67

CI MAN

SR CA

LC STN Files: ADISINSIGHT, BIOSIS, BIOTECHNO, CA, CAPLUS, EMBASE, IMSRESEARCH, PHAR, PROUSDDR, TOXCENTER, USAN, USPAT2, USPATFULL

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

44 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
44 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=>

L40 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 159519-65-0 REGISTRY
ED Entered STN: 13 Dec 1994
CN L-Phenylalaninamide, N-acetyl-L-tyrosyl-L-threonyl-L-seryl-L-leucyl-L-
isoleucyl-L-histidyl-L-seryl-L-leucyl-L-isoleucyl-L- α -glutamyl-L-
 α -glutamyl-L-seryl-L-glutaminyl-L-asparaginyL-L-glutaminyl-L-
glutaminyl-L- α -glutamyl-L-lysyl-L-asparaginyL-L- α -glutamyl-L-
glutaminyl-L- α -glutamyl-L-leucyl-L-leucyl-L- α -glutamyl-L-
leucyl-L- α -aspartyl-L-lysyl-L-tryptophyl-L-alanyl-L-seryl-L-leucyl-L-
tryptophyl-L-asparaginyL-L-tryptophyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1: PN: US20020146415 PAGE: 10 claimed protein
CN 1: PN: US20030044411 PAGE: 10 claimed protein
CN 1: PN: WO0155439 SEQID: 1 claimed protein
CN 1: PN: WO0224149 PAGE: 24 claimed protein
CN 414: PN: WO0164013 FIGURE: 24 claimed protein
CN 636: PN: WO0151673 FIGURE: 54 claimed protein
CN 6: PN: WO2004091542 SEQID: 7 claimed protein
CN DP 178
CN Enfuvirtide
CN Fuzeon
CN GP 41-127-162AA
CN Pentafuside
CN T 20
CN T 20 (peptide)
FS PROTEIN SEQUENCE
DR 262434-79-7
MF C204 H301 N51 O64
CI MAN
SR CA
LC STN Files: ADISINSIGHT, ADISNEWS, ANABSTR, BIOSIS, BIOTECHNO, CA,
CAPLUS, CHEMCATS, CIN, DIOGENES, EMBASE, IMSDRUGNEWS, IMSPATENTS,
IMSRESEARCH, IPA, MRCK*, PATDPASPC, PHAR, PROMT, PROUSDDR, PS, RTECS*,
TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

239 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
243 REFERENCES IN FILE CAPLUS (1907 TO DATE)

(PAG) Poly(alkylene glycol)

> d his ful

(FILE 'HOME' ENTERED AT 15:03:48 ON 02 DEC 2005)

FILE 'REGISTRY' ENTERED AT 15:04:00 ON 02 DEC 2005

L1 STRUCTURE UPLOADED
L2 9 SEA SSS SAM L1
L3 72 SEA SSS FUL L1

FILE 'HCAPLUS' ENTERED AT 15:05:18 ON 02 DEC 2005

L4 31 SEA PLU=ON L3
L5 6 SEA PLU=ON L4 AND (PEG OR (POLYETHYLENE (W) GLYCOL) OR (POLY
(W) ETHYLENE (W) GLYCOL))
D L5 1-6 IBIB HITSTR
D QUE STA

FILE 'USPATFULL, USPAT2' ENTERED AT 15:10:37 ON 02 DEC 2005

L6 16 SEA PLU=ON L3
L7 9 SEA PLU=ON L6 NOT L5

FILE 'CASREACT' ENTERED AT 15:10:57 ON 02 DEC 2005

L8 3 SEA PLU=ON L3
L9 2 SEA PLU=ON L8 NOT L5
D L9 1-2 IBIB RX
D L9 1-2 SBIB

FILE 'CASREACT' ENTERED AT 15:13:10 ON 02 DEC 2005

D L9 1-2 SBIB

FILE 'USPATFULL, USPAT2' ENTERED AT 15:13:39 ON 02 DEC 2005

D L7 1-9 CBIB
D L7 1-9 IBIB HITSTR

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 30 NOV 2005 HIGHEST RN 869059-01-8

DICTIONARY FILE UPDATES: 30 NOV 2005 HIGHEST RN 869059-01-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE HCAPLUS

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 2 Dec 2005 VOL 143 ISS 24
FILE LAST UPDATED: 1 Dec 2005 (20051201/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 1 Dec 2005 (20051201/PD)
FILE LAST UPDATED: 1 Dec 2005 (20051201/ED)
CA INDEXING IS CURRENT THROUGH 1 Dec 2005 (20051201/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 1 Dec 2005 (20051201/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2005

FILE USPAT2

FILE COVERS 2001 TO PUBLICATION DATE: 1 Dec 2005 (20051201/PD)
FILE LAST UPDATED: 1 Dec 2005 (20051201/ED)
CA INDEXING IS CURRENT THROUGH 1 Dec 2005 (20051201/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 1 Dec 2005 (20051201/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2005

FILE CASREACT

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1840 - 27 Nov 2005 VOL 143 ISS 22

New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
*****
*
*      CASREACT now has more than 10 million reactions
*
*****
```

Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTATSH1654

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 4 OCT 03 MATHDI removed from STN
NEWS 5 OCT 04 CA/Capplus-Canadian Intellectual Property Office (CIPO) added
to core patent offices
NEWS 6 OCT 13 New CAS Information Use Policies Effective October 17, 2005
NEWS 7 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download
of Capplus documents for use in third-party analysis and
visualization tools
NEWS 8 OCT 27 Free KWIC format extended in full-text databases
NEWS 9 OCT 27 DIOGENES content streamlined
NEWS 10 OCT 27 EPFULL enhanced with additional content
NEWS 11 NOV 14 CA/Capplus - Expanded coverage of German academic research
NEWS 12 NOV 30 REGISTRY/ZREGISTRY on STN(R) enhanced with experimental
spectral property data

NEWS EXPRESS DECEMBER 02 CURRENT VERSION FOR WINDOWS IS V8.01,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 02 DECEMBER 2005.
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT
<http://download.cas.org/express/v8.0-Discover/>

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

All use of STN is subject to the provisions of the STN Customer
agreement. Please note that this agreement limits use to scientific
research. Use for software development or design or implementation
of commercial gateways or other similar uses is prohibited and may
result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:38:01 ON 02 DEC 2005

=> file registry
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:38:16 ON 02 DEC 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 30 NOV 2005 HIGHEST RN 869059-01-8
DICTIONARY FILE UPDATES: 30 NOV 2005 HIGHEST RN 869059-01-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

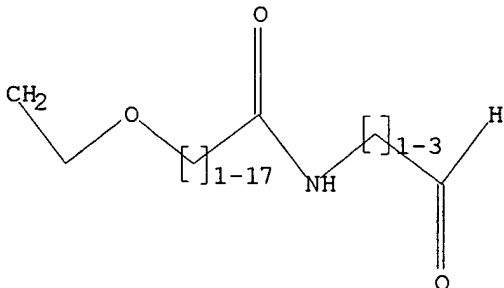
Uploading C:\Program Files\Stnexp\Queries\10625103Claim2and 3.str

L1 STRUCTURE UPLOADED

=> dis

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 14:38:56 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 204147 TO ITERATE

100.0% PROCESSED 204147 ITERATIONS
SEARCH TIME: 00.00.03

391 ANSWERS

L2 391 SEA SSS FUL L1

=> file hcap uspatful

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

161.76

161.97

FILE 'HCAPLUS' ENTERED AT 14:39:42 ON 02 DEC 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATFULL' ENTERED AT 14:39:42 ON 02 DEC 2005

CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

=> 12

L3 243 L2

=> L3 and T20

L4 3 L3 AND T20

=> L3 and T1249

L5 4 L3 AND T1249

=> L4 and L5

L6 2 L4 AND L5

=> d 13 1-3 ibib abs hitstr

L3 ANSWER 1 OF 243 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:1050829 HCAPLUS

DOCUMENT NUMBER: 143:353334

TITLE: PSMA formulations and use thereof for prostate cancer therapy

INVENTOR(S): Schulke, Norbert; Maddon, Paul J.; Olson, William C.

PATENT ASSIGNEE(S): PSMA Development Company, LLC, USA

SOURCE: U.S. Pat. Appl. Publ., 167 pp., Cont.-in-part of U.S. Ser. No. 695,667.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005215472	A1	20050929	US 2004-976352	20041027
WO 2003034903	A2	20030501	WO 2002-US33944	20021023
WO 2003034903	A3	20031030		
WO 2003034903	B1	20040513		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,			

FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF,
 CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 US 2004033229 A1 20040219 US 2003-395894 20030321
 US 2004161776 A1 20040819 US 2003-695667 20031027
 PRIORITY APPLN. INFO.: US 2001-335215P P 20011023
 US 2002-362747P P 20020307
 US 2002-412618P P 20020920
 WO 2002-US33944 A2 20021023
 US 2003-395894 A2 20030321
 US 2003-695667 A2 20031027

AB The invention includes stable multimeric, particularly dimeric, forms of PSMA protein, compns. and kits containing dimeric PSMA protein as well as methods of producing, purifying and using these compns. Such methods include methods for eliciting or enhancing an immune response to cells expressing PSMA, including methods of producing antibodies to dimeric PSMA, as well as methods of treating cancer, such as prostate cancer.

IT **253119-91-4**, RC-552

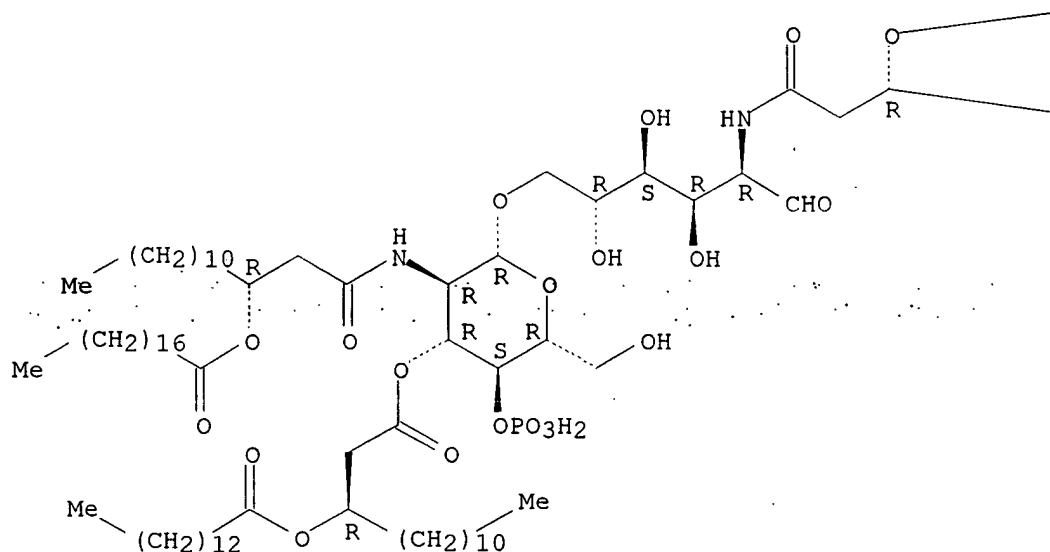
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (adjuvants for multimeric PSMA; PSMA formulations and uses thereof)

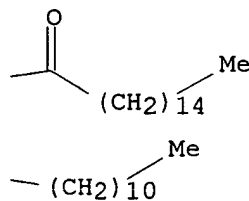
RN 253119-91-4 HCAPLUS

CN D-Glucose, 2-deoxy-6-O-[2-deoxy-2-[[(3R)-1-oxo-3-[(1-oxooctadecyl)oxy]tetradecyl]amino]-3-O-[(3R)-1-oxo-3-[(1-oxotetradecyl)oxy]tetradecyl]-4-O-phosphono-β-D-glucopyranosyl]-2-[[(3R)-1-oxo-3-[(1-oxohexadecyl)oxy]tetradecyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A





L3 ANSWER 2 OF 243 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:690412 HCAPLUS

DOCUMENT NUMBER: 143:262416

TITLE: Tripeptide Mimetics Inhibit the 20 S Proteasome by Covalent Bonding to the Active Threonines

AUTHOR(S): Braun, Hannes A.; Umbreen, Sumaira; Groll, Michael; Kuckelkorn, Ulrike; Mlynarczuk, Izabela; Wigand, Moritz E.; Drung, Ilse; Kloetzel, Peter-Michael; Schmidt, Boris

CORPORATE SOURCE: Clemens Schoepf-Institute for Organic Chemistry and Biochemistry, Darmstadt University of Technology, Darmstadt, D-64287, Germany

SOURCE: Journal of Biological Chemistry (2005), 280(31), 28394-28401
CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular Biology

DOCUMENT TYPE: Journal

LANGUAGE: English

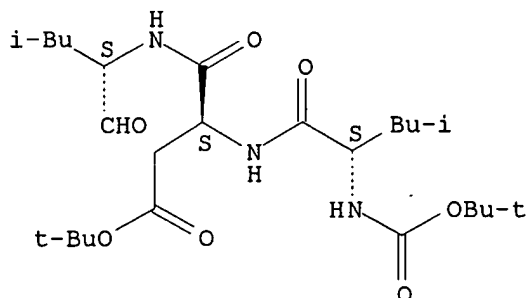
AB Proteasomes play an important role in protein turnover in living cells. The inhibition of proteasomes affects cell cycle processes and induces apoptosis. Thus, 20 S proteasomal inhibitors are potential tools for the modulation of neoplastic growth. Based on MG132, a potent but nonspecific 20 S proteasome inhibitor, the authors designed and synthesized 22 compds. and evaluated them for the inhibition of proteasomes. The majority of the synthesized compds. reduced the hydrolysis of LLVY-7-aminomethylcoumarin peptide substrate in cell lysates, some of them drastically. Several compds. displayed inhibitory effects when tested in vitro on isolated 20 S proteasomes, with lowest IC50 values of 58 nM (chymotrypsin-like activity), 53 nM (trypsin-like activity), and 100 nM (caspase-like activity). Compds. 16, 21, 22, and 28 affected the chymotrypsin-like activity of the $\beta 5$ subunit exclusively, whereas compds. 7 and 8 inhibited the $\beta 2$ trypsin-like active site selectively. Compds. 13 and 15 inhibited all three proteolytic activities. Compound 15 was shown to interact with the active site by x-ray crystallog. The potential of these novel inhibitors was assessed by cellular tolerance and biol. response. HeLa cells tolerated up to 1 μ M concns. of all substances. Intracellular reduction of proteasomal activity and accumulation of polyubiquitinated proteins were observed for compds. 7, 13, 15, 22, 25, 26, 27, and 28 on HeLa cells. Four of these compds. (7, 15, 26, and 28) induced apoptosis in HeLa cells and thus are considered as promising leads for anti-tumor drug development.

IT 863924-62-3 863924-64-5
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(inhibitor; tripeptide mimetics inhibit 20S proteasome by covalent bonding to active site threonines in relation to apoptosis induction and anti-tumor drug development)

RN 863924-62-3 HCAPLUS

CN L- α -Asparagine, N-[(1,1-dimethylethoxy)carbonyl]-L-leucyl-N-[(1S)-1-formyl-3-methylbutyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

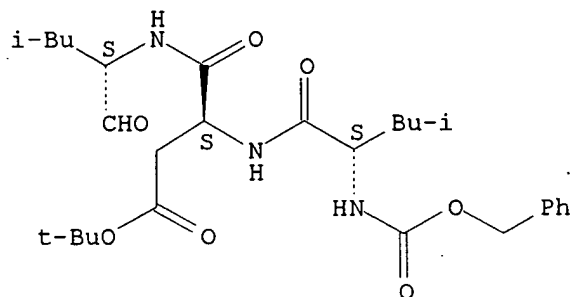
Absolute stereochemistry.



RN 863924-64-5 HCAPLUS

CN L- α -Asparagine, N-[(phenylmethoxy)carbonyl]-L-leucyl-N-[(1S)-1-formyl-3-methylbutyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 243 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:537072 HCAPLUS

DOCUMENT NUMBER: 143:265092

TITLE: Effect of monophosphoryl lipid A on antibody response to diphtheria toxin and its subunits

AUTHOR(S): Caglar, Kayhan; Aybay, Cemalettin; Ataoglu, Haluk
CORPORATE SOURCE: Department of Microbiology and Clinical Microbiology, Faculty of Medicine, Gazi University, Ankara, 06500, Turk.

SOURCE: APMIS (2005), 113(4), 256-263
CODEN: APMSEL; ISSN: 0903-4641

PUBLISHER: Blackwell Publishing Ltd.

DOCUMENT TYPE: Journal

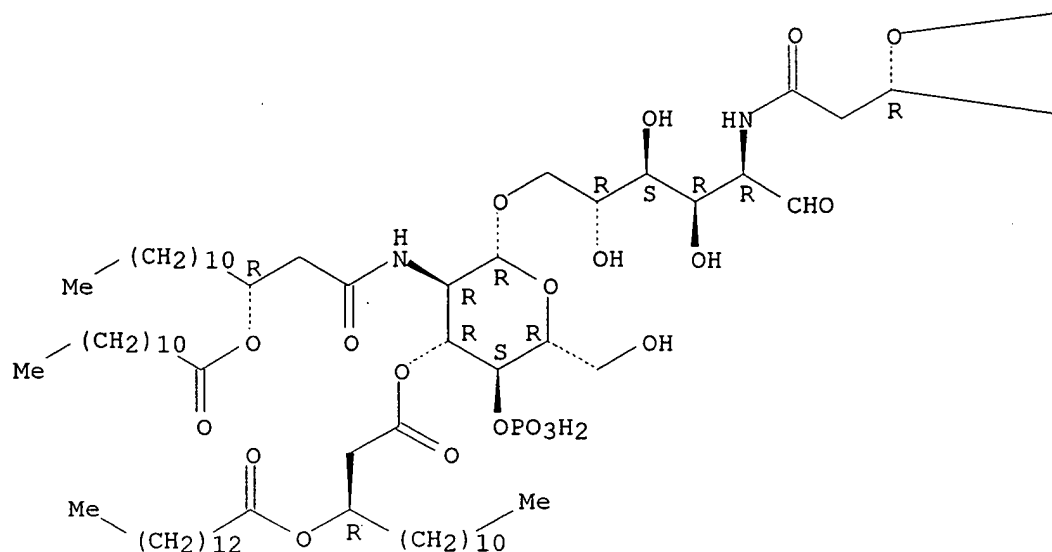
LANGUAGE: English

AB Monophosphoryl lipid A (MPL) was evaluated for its ability to enhance the antibody response to diphtheria toxin and its fragment A and fragment B subunits. BALB/c mice were immunized s.c. with 1 Lf of diphtheria toxoid in the presence of 25 μ g of MPL on days 0 and 14. Two weeks after the second immunization, sera were obtained from the mice and analyzed for antibody response to diphtheria toxin and its subunits. A new ELISA method, developed in the authors' laboratory, was used to measure antibody levels against the toxin, fragment A, and fragment B. It was observed that MPL significantly enhanced antibody responses to diphtheria toxin and its subunits. However, there was no statistical difference between anti-A and anti-B responses. The results indicated that MPL seems to be a potential candidate as an adjuvant for future diphtheria vaccine formulation.

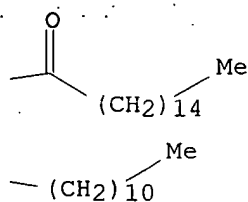
IT 143110-73-0, Monophosphoryl lipid A
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (effect of monophosphoryl lipid A on antibody response to diphtheria
 toxin and its subunits)
 RN 143110-73-0 HCAPLUS
 CN D-Glucose, 2-deoxy-6-O-[2-deoxy-2-[[(3R)-1-oxo-3-[(1-oxododecyl)oxy]tetradecyl]amino]-3-O-[(3R)-1-oxo-3-[(1-oxotetradecyl)oxy]tetradecyl]-4-O-phosphono-β-D-glucopyranosyl]-2-[[(3R)-1-oxo-3-[(1-oxohexadecyl)oxy]tetradecyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 14 1-3 ibib abs hitstr

L4 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2004:120874 HCAPLUS
 DOCUMENT NUMBER: 140:187354
 TITLE: Preparation of PEGylated T20 polypeptide conjugates as antiviral agents
 INVENTOR(S): Bailon, Pascal Sebastian; Won, Chee-Youb

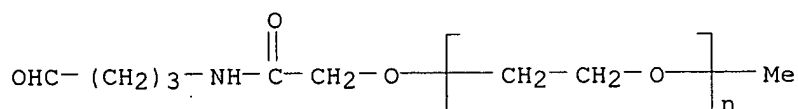
PATENT ASSIGNEE(S): F. Hoffmann-La Roche AG, Switz.
 SOURCE: PCT Int. Appl., 38 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004013164	A1	20040212	WO 2003-EP7710	20030716
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG CA 2493534 AA 20040212 CA 2003-2493534 20030716 EP 1527088 A1 20050504 EP 2003-766190 20030716 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK BR 2003012889 A 20050614 BR 2003-12889 20030716 US 2004049018 A1 20040311 US 2003-623873 20030721 NO 2005000066 A 20050422 NO 2005-66 20050106 PRIORITY APPLN. INFO.: US 2002-398195P P 20020724 WO 2003-EP7710 W 20030716				

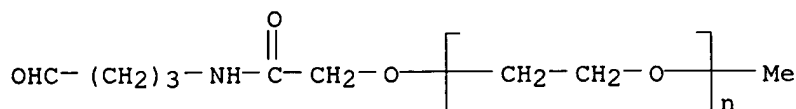
AB Pegylated **T20** polypeptide compds. are provided. Also provided are pharmaceutical compns. containing pegylated **T20** polypeptide compds., and processes of making and using such compds. and compns. Propionaldehyde-PEG was reacted with **T20** to obtain propionaldehyde-PEG-**T20** conjugate (I). The IC50 of I was 0.261 µg/mL.

IT **650634-82-5DP**, reaction with **T20** peptide
650634-82-5P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of PEGylated **T20** polypeptide conjugates as antiviral agents)

RN **650634-82-5** HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α-methyl-ω-[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)



RN **650634-82-5** HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α-methyl-ω-[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 3 USPATFULL on STN

ACCESSION NUMBER: 2004:64499 USPATFULL
TITLE: Pegylated T20 polypeptide
INVENTOR(S): Bailon, Pascal Sebastian, Florham Park, NJ, UNITED STATES
Won, Chee-Youb, Livingston, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004049018	A1	20040311
APPLICATION INFO.:	US 2003-623873	A1	20030721 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-398195P	20020724 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HOFFMANN-LA ROCHE INC., PATENT LAW DEPARTMENT, 340 KINGSLAND STREET, NUTLEY, NJ, 07110	
NUMBER OF CLAIMS:	95	
EXEMPLARY CLAIM:	1	
LINE COUNT:	947	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

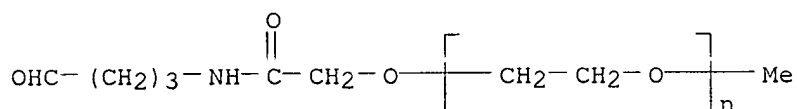
AB Pegylated T20 polypeptide compounds are provided. Also provided are pharmaceutical compositions containing pegylated T20 polypeptide compounds, and methods of making and using such compounds and compositions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 650634-82-5DP, reaction with T20 peptide 650634-82-5P
(preparation of PEGylated T20 polypeptide conjugates as antiviral agents)

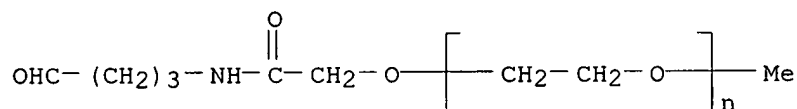
RN 650634-82-5 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)



RN 650634-82-5 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 3 USPATFULL on STN

ACCESSION NUMBER: 2004:25315 USPATFULL
TITLE: Polyethylene glycol aldehydes
INVENTOR(S): Won, Chee-Youb, Livingston, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004019157	A1	20040129

APPLICATION INFO.: US 2003-623978 A1 20030721 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-398196P	20020724 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HOFFMANN-LA ROCHE INC., PATENT LAW DEPARTMENT, 340 KINGSLAND STREET, NUTLEY, NJ, 07110	
NUMBER OF CLAIMS:	86	
EXEMPLARY CLAIM:	1	
LINE COUNT:	974	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polyethylene glycol aldehyde compounds are provided. Methods of making and using such compounds, as well as chemical intermediates are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 650634-80-3P 650634-82-5P 650634-83-6P

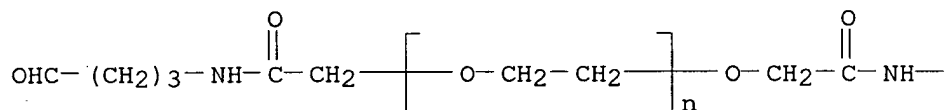
650634-84-7P

(manufacture of aldehyde derivs. of polyethylene glycol)

RN 650634-80-3 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[2-oxo-2-[(4-oxobutyl)amino]ethyl]-
 ω -[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

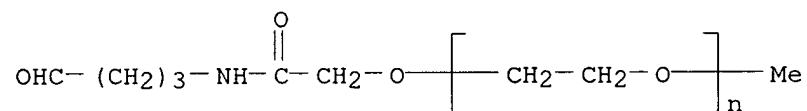


PAGE 1-B

— (CH₂)₃—CHO

RN 650634-82-5 USPATFULL

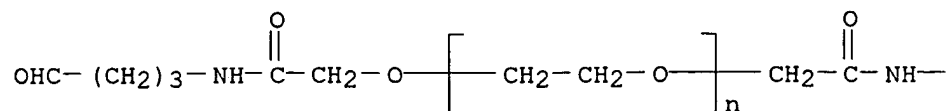
CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)

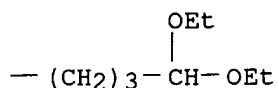


RN 650634-83-6 USPATFULL

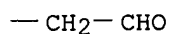
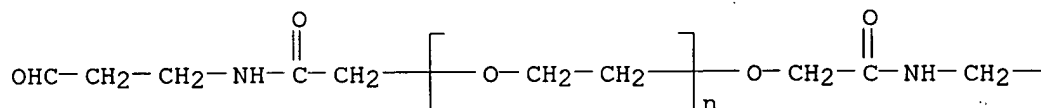
CN Poly(oxy-1,2-ethanediyl), α -[2-[(4,4-diethoxybutyl)amino]-2-oxoethyl]- ω -[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A





RN 650634-84-7 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[2-oxo-2-[(3-oxopropyl)amino]ethyl]-
 ω -[2-oxo-2-[(3-oxopropyl)amino]ethoxy]- (9CI) (CA INDEX NAME)

=> d his

(FILE 'HOME' ENTERED AT 14:38:01 ON 02 DEC 2005)

FILE 'REGISTRY' ENTERED AT 14:38:16 ON 02 DEC 2005

L1 STRUCTURE UPLOADED

L2 391 S L1 FULL

FILE 'HCAPLUS, USPATFULL' ENTERED AT 14:39:42 ON 02 DEC 2005

L3 243 L2

L4 3 L3 AND T20

L5 4 L3 AND T1249

L6 2 L4 AND L5

=> d 15 1-4 ibib abs hitstr

L5 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:120875 HCAPLUS

DOCUMENT NUMBER: 140:187355

TITLE: Preparation of PEGylated **T1249** polypeptide
conjugates as antiviral agents

INVENTOR(S): Bailon, Pascal Sebastian; Won, Chee-Youb

PATENT ASSIGNEE(S): F. Hoffmann-La Roche AG, Switz.

SOURCE: PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004013165	A1	20040212	WO 2003-EP7711	20030716

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2492954 AA 20040212 CA 2003-2492954 20030716
 EP 1546193 A1 20050629 EP 2003-766191 20030716

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

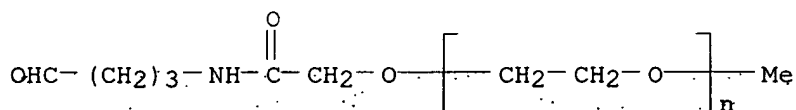
US 2004171542 A1 20040902 US 2003-625103 20030722
 NO 2005000067 A 20050422 NO 2005-67 20050106

PRIORITY APPLN. INFO.: US 2002-398190P P 20020724
 US 2003-439213P P 20030110
 WO 2003-EP7711 W 20030716

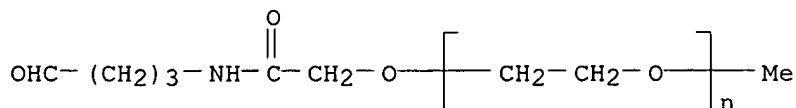
AB Pegylated **T1249** polypeptide compds. are provided. Also provided are pharmaceutical compns. containing pegylated **T1249** polypeptide compds., and processes of making. Further provided is the use of pharmaceutical composition comprising, in admixt. with a pharmaceutically acceptable excipient, a PEGylated **T1249** polypeptide conjugate, for the preparation of a medicament for the inhibition of HIV infection. Propionaldehyde-PEG was reacted with **T1249** to obtain propionaldehyde-PEG-**T1249** conjugate. Antiviral efficacy of the conjugate was shown in rats.

IT **650634-82-5DP**, reaction with **T1249 650634-82-5P**
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of PEGylated **T1249** polypeptide conjugates as antiviral agents)

RN 650634-82-5 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)



RN 650634-82-5 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)



L5 ANSWER 2 OF 4 USPATFULL on STN
 ACCESSION NUMBER: 2004:221771 USPATFULL
 TITLE: Pegylated **T1249** polypeptide
 INVENTOR(S): Bailon, Pascal Sebastian, Florham Park, NJ, UNITED STATES
 Won, Chee-Youb, Livingston, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004171542	A1	20040902
APPLICATION INFO.:	US 2003-625103	A1	20030722 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-439213P	20030110 (60)
	US 2002-398190P	20020724 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HOFFMANN-LA ROCHE INC., PATENT LAW DEPARTMENT, 340 KINGSLAND STREET, NUTLEY, NJ, 07110	
NUMBER OF CLAIMS:	149	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	7 Drawing Page(s)	
LINE COUNT:	1472	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Pegylated **T1249** polypeptide compounds are provided. Also provided are pharmaceutical compositions containing pegylated **T1249** polypeptide compounds, and methods of making. Further provided are methods of inhibiting HIV infection using such compounds and compositions.

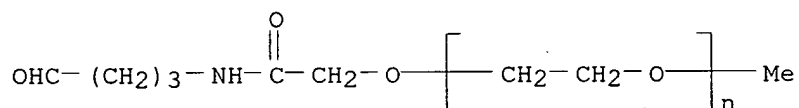
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **650634-82-5DP**, reaction with T1249 **650634-82-5P**

(preparation of PEGylated T1249 polypeptide conjugates as antiviral agents)

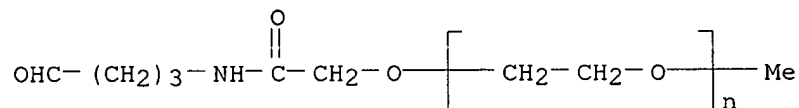
RN 650634-82-5 USPTFULL

CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)



RN 650634-82-5 USPTFULL

CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 4 USPTFULL on STN

ACCESSION NUMBER: 2004:64499 USPTFULL

TITLE: Pegylated T20 polypeptide

INVENTOR(S): Bailon, Pascal Sebastian, Florham Park, NJ, UNITED STATES

Won, Chee-Youb, Livingston, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004049018	A1	20040311
APPLICATION INFO.:	US 2003-623873	A1	20030721 (10)

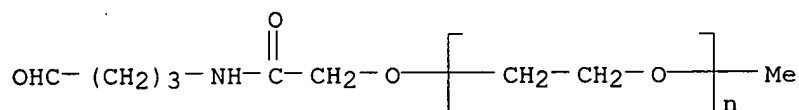
	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-398195P	20020724 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HOFFMANN-LA ROCHE INC., PATENT LAW DEPARTMENT, 340 KINGSLAND STREET, NUTLEY, NJ, 07110	
NUMBER OF CLAIMS:	95	
EXEMPLARY CLAIM:	1	
LINE COUNT:	947	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

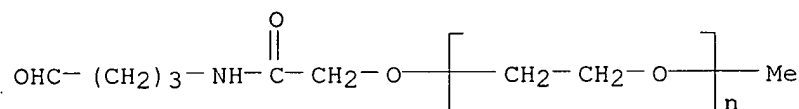
AB Pegylated T20 polypeptide compounds are provided. Also provided are pharmaceutical compositions containing pegylated T20 polypeptide compounds, and methods of making and using such compounds and compositions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 650634-82-5DP, reaction with T20 peptide 650634-82-5P
(preparation of PEGylated T20 polypeptide conjugates as antiviral agents)
RN 650634-82-5 USPATFULL
CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)



RN 650634-82-5 USPATFULL
CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)



L5 ANSWER 4 OF 4 USPATFULL on STN
ACCESSION NUMBER: 2004:25315 USPATFULL
TITLE: Polyethylene glycol aldehydes
INVENTOR(S): Won, Chee-Youb, Livingston, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004019157	A1	20040129
APPLICATION INFO.:	US 2003-623978	A1	20030721 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-398196P	20020724 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HOFFMANN-LA ROCHE INC., PATENT LAW DEPARTMENT, 340 KINGSLAND STREET, NUTLEY, NJ, 07110	
NUMBER OF CLAIMS:	86	
EXEMPLARY CLAIM:	1	
LINE COUNT:	974	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polyethylene glycol aldehyde compounds are provided. Methods of making and using such compounds, as well as chemical intermediates are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 650634-80-3P 650634-82-5P 650634-83-6P

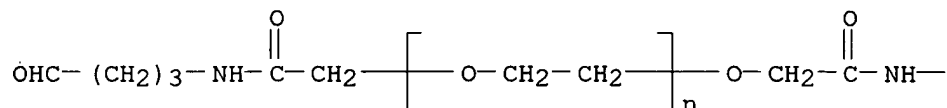
650634-84-7P

(manufacture of aldehyde derivs. of polyethylene glycol)

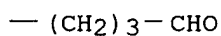
RN 650634-80-3 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[2-oxo-2-[(4-oxobutyl)amino]ethyl]-
 ω -[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

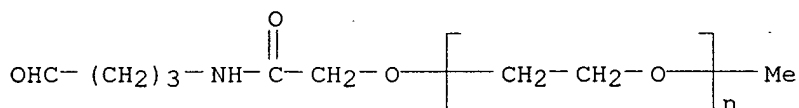


PAGE 1-B



RN 650634-82-5 USPATFULL

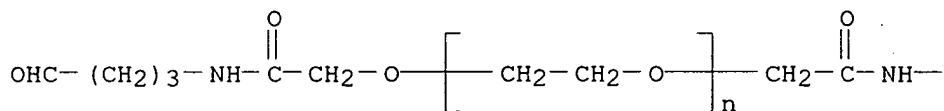
CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)



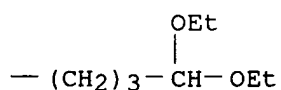
RN 650634-83-6 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[2-[(4,4-diethoxybutyl)amino]-2-oxoethyl]- ω -[2-oxo-2-[(4-oxobutyl)amino]ethoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

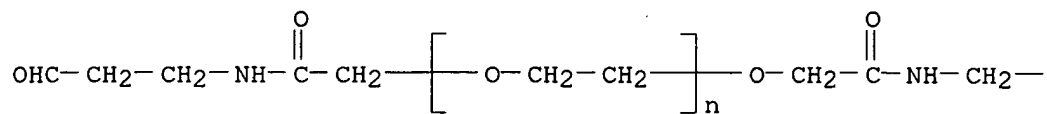


PAGE 1-B



RN 650634-84-7 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[2-oxo-2-[(3-oxopropyl)amino]ethyl]-
 ω -[2-oxo-2-[(3-oxopropyl)amino]ethoxy]- (9CI) (CA INDEX NAME)

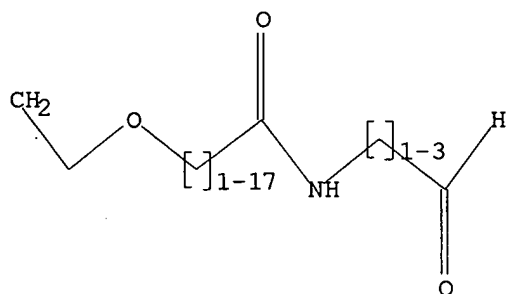


—CH₂—CHO

=> d que stat

L1

STR



Structure attributes must be viewed using STN Express query preparation.

L2 391 SEA FILE=REGISTRY SSS FUL L1

L3 243 SEA L2

L4 3 SEA L3 AND T20

L5 4 SEA L3 AND T1249

L6 2 SEA L4 AND L5

=> d his full

(FILE 'HOME' ENTERED AT 14:38:01 ON 02 DEC 2005)

FILE 'REGISTRY' ENTERED AT 14:38:16 ON 02 DEC 2005

L1 STRUCTURE UPLOADED

DIS

L2 391 SEA SSS FUL L1

FILE 'HCAPLUS, USPATFULL' ENTERED AT 14:39:42 ON 02 DEC 2005

L3 243 SEA ABB=ON PLU=ON L2

L4 3 SEA ABB=ON PLU=ON L3 AND T20

L5 4 SEA ABB=ON PLU=ON L3 AND T1249

L6 2 SEA ABB=ON PLU=ON L4 AND L5

D L3 1-3 IBIB ABS HITSTR

D L4 1-3 IBIB ABS HITSTR

D L5 1-4 IBIB ABS HITSTR

D QUE STAT

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 30 NOV 2005 HIGHEST RN 869059-01-8
DICTIONARY FILE UPDATES: 30 NOV 2005 HIGHEST RN 869059-01-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE HCAPLUS

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 2 Dec 2005 VOL 143 ISS 24
FILE LAST UPDATED: 1 Dec 2005 (20051201/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

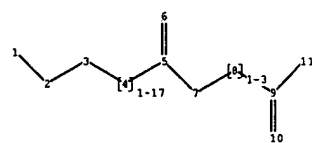
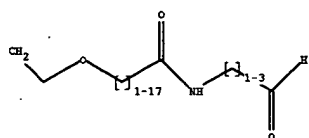
FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 1 Dec 2005 (20051201/PD)
FILE LAST UPDATED: 1 Dec 2005 (20051201/ED)
HIGHEST GRANTED PATENT NUMBER: US6971121
HIGHEST APPLICATION PUBLICATION NUMBER: US2005268363
CA INDEXING IS CURRENT THROUGH 1 Dec 2005 (20051201/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 1 Dec 2005 (20051201/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.



chain nodes :

1 2 3 4 5 6 7 8 9 10 11

chain bonds :

1-2 2-3 3-4 4-5 5-6 5-7 7-8 8-9 9-10 9-11

exact/norm bonds :

2-3 3-4 5-6 5-7 7-8 9-10

exact bonds :

1-2 4-5 8-9 9-11

Match level :

1:CLASS2:CLASS3:CLASS4:CLASS5:CLASS6:CLASS7:CLASS8:CLASS9:CLASS
10:CLASS11:CLASS